DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
)	
	•	111

EX

ED SY LB

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	HH HH HH HH HH HH HH HH HH HHHHHHHHH HH	MM MM MMMM MMMM MMMMM MMMMM MM MM MM MM MM	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	NN NN NN NN NN NN NNN NN NNNN NN NNNN NN NN NN NN NN NN NN NN	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	•••
		\$					

EDTSCHMEINPUT - read with echo if possible 0002 O MODULE EDTSCHMEINPUT (IDENT = 'V04-000' 0004 Ò 0005 BEGIN 0006 0007 8000 1 1+ 0009 1 1 * 0010 1 1. 0011 1 1 ALL RIGHTS RESERVED. 0012 0014 1. 0015 0016 0017 TRANSFERRED. 0018 0019 0020 0021 0022 0023 0024 0025 0027 0028 0029 0030 1 🛊 1 * CORPORATION. . 1 0032 ! FACILITY: 0034 ABSTRACT: 0035 0036 0037 0038 read if so. 0039 0040 0041 0042 0044 MODIFIED BY: 0045 0046 1 0047 extracting the routine EDISSRD ECHO from module CHANGE.BLI.

1-002 - regularize headers. JBS 27-Feb-1981

1-003 - Fix module name. JBS 02-Mar-1981

1-004 - Revise journaling, and only do line reads if we can read at least four characters. JBS 18-Jun-1981

1-005 - Prompt from the global string, if requested. JBS 21-Oct-1981

1-006 - Remove length of prompt string. JBS 23-Oct-1981

1-007 - Make the reads shorter to allow for the cursor positioning sequence.

JBS 29-Jan-1982 0048 0049 0050 0051

10112131451617

18901234567890

31 32 33

34

35

36

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41 42

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46

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50 51

52 53

54 55

56 57

0052 1 0053 1

0054 0055

0056 0057

```
O %TITLE 'EDT$CHMEINPUT - read with echo if possible'
                                                   ! Read with echo if possible
                                                           ! File: CHMEINPUT.BLI Edit: JBS1040
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                  EDT -- The DEC Standard Editor
          This module determines whether a special read can be performed
          which leaves character echoing to the terminal driver, and does the
```

ENVIRONMENT: Runs at any access mode - AST reentrant

AUTHOR: Bob Kushlis, CREATION DATE: Unknown

1-001 - Original. DJS 04-Feb-1981. This module was created by extracting the routine EDT\$\$RD_ECHO_from module CHANGE.BLI.

1-008 - Don't make the lengths of the reads depend on the special prompt; otherwise the QA system has trouble. JBS 29-Jan-1982

```
15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
EDTSCHMEINPUT
                                  EDISCHMEINPUT - read with echo if possible
                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                                                                                          Page
V04-000
                                                                                                                                                                                            [EDT.SRC]CHMEINPUT.BLI:1
                                                       1-009 - Add EDT$$G_JOU_VALID. JBS 09-Apr-1982
1-010 - Worry about control C. JBS 24-May-198
        58
59
        60
                                  0060
                                                       1-011 - New screen update logic. JBS 13-Sep-1982
                                                       1-012 - Include the EOL test routine, since it was only called from here. JBS 22-Sep-1982 1-013 - Correct a misspelling in edit 1-012. JBS 23-Sep-1982 1-014 - Add insert mode for VI102s. JBS 27-Sep-1982
        61
                                  0061
        63 64 65
                                  0062
                                                       1-015 - Use a local text buffer, to avoid clobbering text if we are inserting. JBS 27-Sep-1982
1-016 - Fix journaling of inserted text. JBS 28-Sep-1982
1-017 - Remove EDT$$G_LN_NO for new screen update logic. JBS 29-Sep-1982
1-018 - Keep EDT$$G_PRV_COL_up to date. JBS 05-Oct-1982
                                  0064
                                  0065
        66789012377777777777
                                  0066
                                  0067
                                                       1-018 - Reep ED133G_PRV LUL up to date. JBS 03-UCT-1902
1-019 - Allow for fat characters to the right of the cursor. JBS 06-Oct-1982
1-020 - Don't do optimized input if there is text on the message line. JBS 06-Oct-1982
1-021 - Don't write out to the journal file here. STS 07-Oct-1982
1-022 - Fix call to EDT$$FMT (HWID. JBS 13-Oct-1982
1-023 - Don't send the CR and reposition the cursor unless the terminal driver needs it. JBS 16-Oct-1982
                                  0068
                                  0069
                                  0070
                                  0071
                                  0072
                                  0074
                                                       1-024 - Handle some cases of DEL. JBS 10-Nov-1982
                                                       1-025 - Don't redundently enter insert mode. JBS 11-Nov-1982
1-026 - Take into account characters already read when allowing for end of line. JBS 16-Nov-1982
                                  0075
                                  0076
                                                       1-027 - Take into account characters already read when positioning the cursor. JBS 22-Nov-1982
                                  0077
                                                      1-02/ - Take into account characters already read when positioning the cursor. JBS 22-Nov-1982
1-028 - Don't forget that DEL also repositions the cursor. JBS 24-Nov-1982
1-029 - Don't forget to journal the DEL. Also, repaint the line if NOTRUNCATE. JBS 25-Nov-1982
1-030 - Journal the correct text after DEL. JBS 25-Nov-1982
1-031 - Change the call to EDT$$TST KEYDEF. JBS 14-Dec-1982
1-032 - Remove EDT$$G SHF. JBS 14-Dec-1982
1-033 - Don't do it at the front of any line, even a continuation line. JBS 20-Dec-1982
1-034 - Change the call to EDT$$MRK_LNCHG. JBS 27-Dec-1982
1-035 - Maintain EDT$$G CS OLDCHNO. JBS 27-Dec-1982
1-036 - If the screen is shifted don't do it. JBS 29-Dec-1982
        78
79
                                  0078
                                  0079
        80
                                  0800
        81
                                  0081
                                  0082
        82
        83
                                  0084
        85
                                  0085
        86
                                  0086
                                                      1-037 - Start on improving quality by going closer to the right margin before quitting. JBS 14-Jan-1982
1-038 - Never read more than 70 characters at a time. JBS 08-Feb-1983
        87
                                  0087
        88
                                  0088
                                              1 ! 1-039 - Read closer to the right margin. JBS 09-Feb-1983
        89
                                  0089
        90
                                              1 ! 1-040 - Use EDT$$SC_INS_MODE to avoid entering and leaving insert mode so often. JBS 01-Apr-1983
                                  0090
        91
                                  0091
                                  0092
```

```
D 16
15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
EDTSCHMEINPUT
                                                                                                                            VAX-11 Bliss-32 V4.0-742 [EDT.SRC]CHMEINPUT.BLI;1
                      EDTSIHMEINPUT - read with echo if possible
                                                                                                                                                                                Page
V04-000
                      Declarations
                      0093 1 %SBTTL 'Declarations' 0094 1 ! 0095 1 ! TABLE OF CONTENTS:
    95
96
97
98
99
100
103
104
105
106
107
                      1 REQUIRE 'EDTSRC:TRANOJNAM';
                               1 FORWARD ROUTINE
1 EDTSSRD_ECHO;
                                                                                                      ! Try to optimize terminal input
                              INCLUDE FILES:
    108
                               1 REQUIRE 'EDTSRC:EDTREQ';
    109
    110
    111
                                    MACROS:
   112
                                             NONE
    114
    115
                                    EQUATED SYMBOLS:
   116
                      0688
                      0689
0690
0691
    118
                               1 LITERAL
                                       CHAR_LIMIT_1 = 2,
CHAR_LIMIT_2 = 1;
    119
                                                                                          ! Do optimized input even if only this many characters can be read ! Read this many chars less than we can
   120
121
122
123
124
125
126
127
128
129
                      0692
                      0693
                      0694
                                    OWN STORAGE:
                      0695
                      0696
                                             NONE
                      0697
                      0698
                                    EXTERNAL REFERENCES:
                      0699
                      0700
                                             In the routine
```

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(3)

```
F 16
EDT$CHMEINPUT
                                                                                                                                  15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
                                EDISCHMEINPUT - read with echo if possible
                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 LEDT.SRCJCHMEINPUT.BLI;1
                                EDT$$RD_ECHO - read with echo if possible
V04-000
                                                                EDT$$G_PRV_COL
EDT$$G_LN_CHGD
EDT$$G_JOU_VALID
EDT$$G_CC_DONE
EDT$$G_RDAHED
EDT$$G_VERT
EDT$$I_DEL_CH
EDT$$G_DEL_CHLEN
EDT$$G_CS_OLDCHNO
     189
     190
                                0760
    0761
                                0762
                                0764
0765
                               0766
0767
0768
0769
0770
                                            1 !
                                                    ROUTINE VALUE:
                                                                0 = read with echo not possible, 1 = read with echo done.
                                0771
                               0771
0772
0773
0774
0775
0776
0777
0778
0779
                                                    SIDE EFFECTS:
                                           1 1
                                                                NONE
                                           1 !
                                            1 !--
                                                        BEGIN
                                                       EXTERNAL ROUTINE
EDT$$CHK_CC,
EDT$$FMT_LIT : NOVALUE,
EDT$$TI_RDSTR : NOVALUE,
                               0781
0782
0783
0784
0785
0786
0787
0788
0789
0790
                                                                                                                                                   ! Test for a control C
! format a literal string
! Read with echo
                                                               EDT$$TI_RDSTR : NOVALUE,

EDT$$TI_BUFCH : NOVALUE,

EDT$$SC_POSCSIF : NOVALUE,

EDT$$SC_NONREVID : NOVALUE,

EDT$$SC_REVID : NOVALUE,

EDT$$SEC_RHGPOS,

EDT$$TST_KEYDEF,

EDT$$C_ERATOFOL : NOVALUE
                                                                                                                                                     Put characters in the journal buffer Update the length of the current line Position the cursor if necessary End reverse video
                                                                                                                                                      Start reverse video
                                                                                                                                                     Compare the select line with the current line Compute the width of a character Test a key for a given definition Erase to end of line Mark a line as having changed
                                0791
                                                                EDTSSSC_ERATOEOL : NOVALUE,
                                0792
                                0793
                                                                EDT$$MRR_LNCHG : NOVALUE,
EDT$$SC_INS_MODE : NOVALUE;
                                0794
                                                                                                                                                  ! Enter insert mode
                                0795
                                                       EXTERNAL EDTSSG_CUR_COL, EDTSSG_LN_CHGD,
                               0796
                               0797
                                                                                                                                                      current column
                                0798
                                                                                                                                                      Indicates current line has changed.
                                                               EDTSSG_CS_LNO,
EDTSSA_SEL_BUF,
EDTSSG_VERT,
EDTSSG_KPAD,
                                0799
                                                                                                                                                      cursor line.
                                0800
                                                                                                                                                     Pointer to select buffer.
Last entity was VERT flag.
Keypad activated?
                                0801
                                0802
                                                               EDTSSG_KPAD,
EDTSSG_RCOV_MOD,
EDTSSA_CUR_BUF : REF_TBCB_BLOCK,
EDTSSG_TI_DID,
EDTSSG_WD_WRAP,
EDTSST_LN_BUF,
EDTSSA_LN_PTR : REF_VECTOR [, BYTE],
EDTSSA_LN_END,
EDTSSG_PRV_COL,
EDTSSG_PRV_COL,
EDTSSG_JOU_VALID.
                                0803
                                                                                                                                                      In recovery mode?
The current buffer tbcb
                                0804
                                0805
                                                                                                                                                      Width of terminal line
                                0806
                                                                                                                                                      Word wrap
                                0807
                                                                                                                                                      Current line buffer
                                0808
                                                                                                                                                      Current character pointer
                                0809
                                                                                                                                                      Pointer to end of current line
                                                                                                                                                     Previous column number
Counted ASCII string for keypad prompt
The journal record is valid
                                0810
                                0811
                               0812
                                                                EDT$$G_JOU_VALID,
EDT$$G_CC_DONE,
                                                                                                                                                  ! Control C actually aborted something ! The current work line
      244
                                0814
                                                                EDTSSA_UK_LN,
```

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```
G 16
15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
                                                                                                                          VAX-11 Bliss-32 V4.0-742 [EDT.SRC]CHMEINPUT.BLI;1
                      EDT$CHMEINPUT - read with echo if possible
EDT$CHMEINPUT
                                                                                                                                                                             Page
V04-000
                      EDT$$RD ECHO - read with echo if possible
                                           EDT$$Z_EOB_LN,
EDT$$G_TI_EDIT,
EDT$$G_MSGFLG,
EDT$$G_MSGFLG,
EDT$$G_RDAHED,
EDT$$T_RDAHED,
EDT$$T_DEL_CH : VECTOR [2, BYTE],
EDT$$G_DEL_CHLEN,
EDT$$G_TRUN,
EDT$$G_TRUN,
EDT$$G_CS_UDCHNO,
EDT$$G_CS_UDCHNO,
EDT$$G_SHF,
EDT$$G_INSERT_MODE;
   The special line that marks end of buffer 1 = this terminal has Insert Character Mode
                      0816
                      0817
                                                                                                      1 = there is text on the message line
                      0818
                                                                                                      1 = terminal driver needs CR to avoid wrapping lines
                      0819
                                                                                                      Number of chars in read-ahead buffer
                      0820
                                                                                                       The read-ahead buffer
                      0821
0822
0823
                                                                                                      Deleted character buffer.
Length of deleted character buffer
                                                                                                      0 = NOTRUNCATE mode
                      0824
                                                                                                      Pointer to current screen info for current line Old character position on the line
                      0825
                      0826
                                                                                                      Screen shift amount
                      0827
                                                                                                    ! 1 = screen is in insert mode
                      0828
                      0829
                                      LOCAL
                                            BUF_LEFT,
NUM_CHARS,
    260
                      0830
    261
                      0831
    262
263
                      0832
                                            READ
                      0833
                                            NUM READ
                                            READ DONÉ,
TERMINATOR PROCESSED,
TEXT_BUF : VECTOR [132, BYTE];
    264
265
                      0834
                      0835
                      0836
    266
    267
                      0837
                      0838
    268
   269
270
271
273
273
275
276
277
                      0839
                                   We can only do this in keypad mode.
                      0840
                      0841
                     0842
0843
                                       IF ( NOT .EDT$$G_KPAD) THEN RETURN (0);
                     0844
0845
                                 ! If we are on a continuation line don't do it.
                      0846
                      0847
    278
                      0848
                                       If (.EDT$$A_CSR_SCRPTR EQLA 0) THEN RETURN (0);
    279
                      0849
    280
                      0850
                                       If (.EDT$$A_CSR_SCRPTR [SCR_CHR_FROM] NEQ 0) THEN RETURN (0);
    281
282
283
                      0851
                      0852
0853
                                If we are at the left margin don't do it.
    284
285
                      0854
                      0855
    286
                      0856
                                       IF (.EDT$$A_CSR_SCRPTR [SCR_CHR_FROM] EQL (.EDT$$A_LN_PTR - EDT$$T_LN_BUF)) THEN RETURN (0);
    287
288
                      0857
                              2 !+
2 ! If in recovery mode don't do it.
2 !-
                      0858
    289
290
291
292
293
294
295
298
299
300
                      0859
                      0860
                      0861
                      0862
                                       IF .EDT$$G_RCOV_MOD THEN RETURN (0);
                      0863
                              2 !+
2 ! If at end of buffer don't do it.
2 !-
                      0864
                      0865
                      0866
                      0867
                      0868
                                       IF (.EDT$$A_WK_LN EQLA EDT$$Z_EOB_LN) THEN RETURN (0);
                      0869
                              2 !+
2 ! If there is text on the message line don't do it, since we want
    301
```

```
H 16
15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
EDTSCHMEINPUT
                 EDTSCHMEINPUT - read with echo if possible
                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                      Page
V04-000
                                                                                                                                            (3)
                 EDISSRD_ECHO - read with echo if possible
                                                                                               [EDT.SRC]CHMEINPUT.BLI:1
   302
303
704
                            to erase the text at the next keystroke. After that keystroke
                            the message line will be erased and we will come back here to
                 0874
                           check again for optimized input.
   305
                 0875
  3067
3078
309
3112
313
3145
316
                 0876
                 0877
                              If (.EDT$$G_MSGFLG) THEN RETURN (0);
                 0878
                 0879
                         ! If the screen is shifted don't do it.
                 0880
                 0881
                 0882
0883
                              IF (.EDT$$G_SHF NEQ 0) THEN RETURN (0);
                 0884
                 0885
                 0886
                            If this terminal has editing features don't do it if there is
  0887
                            a tab to the right of the cursor. If this terminal does not
                 0888
                            have editing features, don't do it if there is anything to the
                 0889
                           right of the cursor.
                 0890
                 0891
                 0892
0893
                              IF .EDT$$G_TI_EDIT
                 0894
                                  BEGIN
                 0895
                 0896
                                   IF ( NOT CH$FAIL (CH$FIND_CH (CH$DIFF (.EDT$$A_LN_END, .EDT$$A_LN_PTR), .EDT$$A_LN_PTR, ASC_K_TAB)))
                 0897
                                  THEN
                 0898
                                       RETURN (0);
                 0899
                             ELSE
                 0900
                 0901
                 0902
                 0903
                                  IF (CH$DIFF (.EDT$$A_LN_END, .EDT$$A_LN_PTR) NEQ 0) THEN RETURN (0);
                 0904
                 0905
                 0906
                         ! Finally, it looks possible. Keep doing it as long as we can.
                 0907
                 0908
                              READ_DONE = 0;
                 0909
                              READ = 0:
  0910
                 0911
                              DO
                 0912
                                  BEGIN
                                  TERMINATOR PROCESSED = 0;
                 0914
                 0915
                          ! Compute the number of characters left on the line.
                 0916
                 0917
                                  NUM_CHARS = .EDT$$G_TI_WID - 1;
                 0918
                 0919
                         ! If we are in wrap mode, make sure we get control at the wrap column.
                 0920
                 0921
                 0922
                                   IF (.EDT$$G_WD_WRAP LSS .NUM_CHARS) THEN NUM_CHARS = .EDT$$G_WD_WRAP;
                 0924
                        Subtract the current cursor position.

NUM CHARS = .NUM CHARS - .EDT$$
                 0926
                 0927
                                  NUM_CHARS = .NUM_CHARS + .EDT$$G_CUR_COL - .READ;
```

```
16
EDTSCHMEINPUT
                 EDTSCHMEINPUT - read with echo if possible
                                                                     15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                       Page
V04-000
                 EDT$$RD_ECHO - read with echo if possible
                                                                                               [EDT.SRC]CHMEINPUT.BLI:1
  Subtract the width of the characters to the right of the cursor.
                                                                                                   Note that
                            unless we are on a terminal with screen editing features this will always
                            be zero. Note also that there can be no HTs to the right of the cursor,
                 0932
                            so the widths of the characters are independent of their position on the line.
                            Hence the second parameter to EDT$$FMT_CHWID will not be used.
                 0934
                 0935
0936
                                  INCR CPTR FROM .EDT$$A_LN_PTR TO .EDT$$A_LN_END - 1 DO
                 0937
0938
0939
                                       NUM_CHARS = .NUM_CHARS - EDT$$FMT_CH@IDT(CH$RCHAR (.CPTR), 0);
                 0940
0941
0942
0943
                           Make sure there is enough room left in the line buffer.
                                  BUF_LEFT = 255 - CH$DIFF (.EDT$$A_LN_PTR, EDT$$T_LN_BUF);
                 0944
                                  IF (.BUF_LEFT LSS .NUM_CHARS) THEN NUM_CHARS = .BUF_LEFT;
                 0945
                 0946
0947
                           Don't try to read more than the space we have in our local buffer.
                 0948
                 0949
                 0950
0951
                                  if ((.num_chars + .read) gtr 132) then num_chars = 132 - .read;
                 0952
0953
0954
0955
                           Now, if we have a reasonable size, we can read with echo.
   384
   385
   386
                 0956
                                  IF (.NUM_CHARS GTR CHAR_LIMIT_1)
   387
                 0957
                                  THEN
   388
                 0958
                                      BEGIN
  389
390
391
393
394
395
398
                 0959
                 0960
                           We will do a read with echo. Make sure the video attributes are right.
                 0961
                 0962
                 0963
                                       If (.EDT$$A_SEL_BUF EQL .EDT$$A_CUR_BUF)
                 0964
                                       THEN
                 0965
                                           BEGIN
                 0966
                 0967
                                           IF (EDT$$SEL_RNGPOS () LEQ 0) THEN EDT$$SC_REVID () ELSE EDT$$SC_NONREVID ()
                 0968
   399
                 0969
                                           END
  400
401
402
403
404
405
                 0970
                                      ELSE
                 0971
                                           EDT$$SC_NONREVID ();
                 0972
0973
                 0974
                           If we are not at the end of the line, put the terminal in insert mode. This can only
                 0975
                           be done on terminals that have the 'edit' feature.
  406
                 0976
                 0977
  408
                 0978
                                       If ((CH$DIFF (.EDT$$A_LN_END, .EDT$$A_LN_PTR) NEQ 0) AND (.EDT$$G_INSERT_MODE EQL 0))
  409
                 0979
                                       THEN
  410
                 U980
                                           EDT$$SC_INS_MODE ();
  411
                 0981
  412
                 0982
0983
                           Put out a carriage return to make the terminal driver think we are at the
  414
                 0984
                            beginning of a line, then reposition the cursor. This is needed only for
   415
                         ! some terminal drivers, that lose track of the cursor and output a CRLF
```

```
J 16
                                                                     15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
EDTSCHME INPUT
                 EDTSCHMEINPUT - read with echo if possible
                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                       Page
V04-000
                 EDT$$RD_E(HO - read with echo if possible
                                                                                               [EDT.SRC]CHMEINPUT.BLI:1
                                                                                                                                            (3)
   416
                          ! if they think that the user is about to type to the right of the screen.
   417
                 0987
                 0988
0989
  418
  419
                                       IF .EDT$$G_TI_DUMB
                 0990
  THEN
                 0991
                                           BEGIN
                 0993
0993
                                           EDT$$FMT_LIT (UPLIT (%STRING (%CHAR (ASC_K CR))), 1);
                                           EDT$$G_PRV_COL = 0;
                 0994
                                           END:
                 0995
                 0976
                 0997
                            Make sure the cursor is positioned correctly.
                 0998
                 0999
                                       EDT$$SC_POSCSIF (.EDT$$G_CS_LNO, .EDT$$G_CUR_COL + .READ);
                 1000
                 1001
                            Do the special read with echo. Optionally prompt. Since the terminal driver may
                 1002
                            count the length of the prompt, it must be short enough that our "worst case" estimate
                 1003
                            of 10 characters in the repositioning allows for it. Don't read more than 70 characters
                 1004
                            at a time.
                 1005
                 1006
                 1007
                                       IF (.EDT$$T_PMT_KPD [0] GTR 0) THEN EDT$$FMT_LIT (EDT$$T_PMT_KPD [1], .EDT$$T_PMT_KPD [0]);
                 1008
                 1009
                                      EDT$$TI_RDSTR (TEXT_BUF [.READ], MIN (70, .NUM_CHARS - CHAR_LIMIT_2), NUM_READ);
   440
                 1010
                                       EDT$$G_PRV_COL = .EDT$$G_PRV_COL + .NUM_READ;
  441
                 1011
                                       READ_DONE = 1;
  442
                 1012
                                      END
                                  ELSE
  444
                 1014
                                      NUM_READ = 0;
  446
                 1016
                           Cause the characters to appear in the next journal record.
  448
449
450
                 1018
                 1019
                 1020
1021
1022
1023
                                  INCR COUNTER FROM 0 TO (.NUM READ - 1) DO
  451
                                      EDT$$TI_BUFCH (.TEXT_BUFT[.READ + .COUNTER]);
  452
                                  EDT$$G_JOU_VALID = 1;
  ,54
455
                 1024
                                  READ = .READ + .NUM_READ;
  456
457
458
459
                 1026
1027
                           If the line was terminated by a control C bail out. If any characters were
                         ! read the insert is aborted; otherwise the control C is effectively ignored.
                 1028
1029
1030
1031
1033
1033
1036
1037
1038
  460
                                  IF EDT$$CHK_CC ()
  461
                                  THEN
  462
                                      BEGIN
  463
  464
                                      IF (.READ GTR 0) THEN EDT$$G_CC_DONE = 1;
  465
  466
                                      RETURN (0):
  467
                                      END;
  468
  469
                 1040
                           If there is a single terminator, and if it is defined to delete
   471
                 1041
                           the last character, shorten the string by one and do another read.
  472
                 1042
```

```
K 16
15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
EDTSCHMEINPUT
                    EDT$CHMEINPUT - read with echo if possible
                                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                                               Page 10
V04-000
                    EDT$$RD_ECHO - read with echo if possible
                                                                                                                 CEDT.SRCJCHMEINPUT.BLI:1
   473
4776
4776
4778
4778
4778
488
488
488
488
488
                    1044
                                         IF ((.EDT$$G_RDAHED EQL 1) AND !
EDT$$TST_KEYDEF (CH$RCHAR (EDT$$T_RDAHED), UPLIT (BYTE ('D-C.')), 4, 0) AND (.READ GEQ 1))
                    1046
                    1047
                                         THEN
                                              BEGIN
                    1049
                              ! Make sure the delete character appears in the journal.
                    1051
1052
1053
1054
1055
1056
1057
1058
                                             EDT$$TI_BUFCH (CH$RCHAR (EDT$$T_RUAHED));
READ = .READ - 1;
EDT$$SC_POSCSIF (.EDT$$G_CS_LNO, .EDT$$G_PRV_COL - 1);
                                              IF (.EDT$$G_INSERT_MODE NEQ 0)
                                              THEN
                                                   BEGIN
   489
                    1060
                                 We must delete exactly one character.
   491
492
493
494
                    1061
                    1062
                                                   EDT$$FMT_LIT (UPLIT (BYTE (ASC_K_ESC, %C'[', %C'P')), 3);
                    1064
                                              ELSE
                    1065
                                                   BEGIN
   496
                    1066
                    1067
                                 We are just before the character to delete, and there are no visible characters after
   498
                    1068
                                 the character to delete. We can erase to end of line.
                    1069
   499
   500
                                                   EDT$$SC_ERATOEOL ();
                    1071
1072
1073
   501
                                                   END:
   502
   503
                    1074
   504
                                Store the character deleted in the delete character buffer.
   505
                    1076
1077
1078
1079
                                             EDT$$G_DEL_CHLEN = 1;
EDT$$T_DEL_CH [0] = DIR_BACKWARD;
EDT$$T_DEL_CH [1] = .TEXT_BUF [.READ];
EDT$$G_RDARED = 0;
   506
   507
   508
   509
                                              EDT$$G_VERT = 0
   510
                    1080
   511
                    1081
                                              TERMINATOR PROCESSED = 1:
   512
513
                    1082
                                              END:
                    1083
                    1084
   514
   515
                              ! Keep reading if we processed the terminator.
   516
517
                    1086
                    1087
   518
                    1088
                                   UNTIL ( NOT .TERMINATOR_PROCESSED);
   519
521
522
523
525
526
527
528
529
                    1089
                    1090
                              ! Insert the characters read into the line.
                    1091
                 1092
P 1093
                                   EDT$$CPY_MEM (CH$DIFF (.EDT$$A_LN_END, .EDT$$A_LN_PTR), .EDT$$A_LN_PTR,
                    1094
                                         CHSPEUS (.EDTS$A_LN_PTR, .READ))
                                   EDT$$CPY_MEM (.READ, TEXT_BUF [0], .EDT$$A_LN_PTR);
                    1095
                    1096
1097
                                 Add the number of characters read to the line size.
                    1098
                    1099
                                   EDT$$UPD_LNLEN (.READ);
```

(3)

```
16
                                                                                                15-Sep-1984 23:50:01
14-Sep-1984 12:22:26
                       EDTSCHMEINPUT - read with echo if possible
EDT$CHMEINPUT
                                                                                                                                     VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                           Page
V04-000
                       EDT$$RD_ECHO - read with echo if possible
                                                                                                                                     [EDT.SRC]CHMEINPUT.BLI:1
                                                                                                                                                                                                   (3)
    If we actually read some characters update the cursor position.
                        1101
                       1102
                        1104
                                          IF (.READ NEQ 0)
                       1105
1106
1107
                                          THEN
                                                BEGIN
                                                EDT$$G_CUR_COL = .EDT$$G_CUR_COL + .READ;
                        1108
                                                EDT$$G_VERT = 0;
                        1109
                        1110
                                      Note that the line is not marked as changed for the screen
                        1111
                                       updater, since the modification to the screen has already
                       1112
                                       been made. However, we must note for the work file system
                                      that the current line has been changed.
                       1114
                                                EDT$$G_LN_CHGD = 1;
                       1116
                                                END:
                        1118
                                    ! Update the current character pointer.
                        1119
                        1120
                       1121
1122
1123
                                          EDT$$A_LN_PTR = CH$PLUS (.EDT$$A_LN_PTR, .READ);
EDT$$G_CS_OLDCHNO = .EDT$$G_CS_OLDCHNO + .READ;
                                          RETURN (.READ_DONE);
                        1124
                                          END:
                                                                                                            ! of routine EDT$$RD_ECHO
                                                                                                                .TITLE EDT$CHMEINPUT EDT$CHMEINPUT - read with echo if
                                                                                                                                                  possible
                                                                                                                .IDENT \V04-000\
                                                                                                                .PSECT
                                                                                                                           _EDT$CODE,NOWRT, SHR, PIC,2
                                                                        00
43
50
                                                                                                                           <13><0><0><0>
                                                                                          00000 P.AAA:
                                                                                    OD
                                                                                                                .ASCII
                                                                              2D
5B
                                                                                                                           \D-C.\
27, 91, 80
                                                                  ŽĒ.
                                                                                    44
                                                                                          00004 P.AAB:
                                                                                                                .ASCII
                                                                                    18
                                                                                          00008 P.AAC:
                                                                                                                .BYTE
                                                                                                                          EDT$$CHK CC, EDT$$FMT LIT
EDT$$TI RDSTR, EDT$$TI BUFCH
EDT$$UPD LNLEN, EDT$$SC_POSCSIF
EDT$$SC_RONREVID
EDT$$SC_REVID, EDT$$SEL RNGPOS
EDT$$FMT CHWID, EDT$$TST_KEYDEF
EDT$$SC_ERATOEOL
EDT$$MRR_LNCHG, EDT$$SC_INS_MODE
EDT$$G_CS_ENO, EDT$$G_EN_CHGD
EDT$$G_CS_ENO, EDT$$G_EN_CHGD
EDT$$G_VERT, EDT$$G_KPAD
EDT$$G_VERT, EDT$$G_TI_WID
EDT$$G_WD_WRAP, EDT$$T_LN_BUF
EDT$$G_WD_WRAP, EDT$$A_EN_END
EDT$$G_PRV_COL, EDT$$T_PMT_KPD
EDT$$G_JOU_VALID
EDT$$G_JOU_VALID
EDT$$G_CC_BONE, EDT$$G_TI_EDIT
EDT$$G_MSGFLG, EDT$$G_TI_DUMB
                                                                                                                .EXTRN
                                                                                                                .EXTRN EDT$$G_MSGFLG, EDT$$G_TI_DUMB
```

EDTSCHMEINPUT V04-000	EDT\$CHMEINPUT - read EDT\$\$RD_ECHO - read	with echo if poss with echo if poss	M 16 ible 15-Sep-19 ible 14-Sep-19	1984 23:50:01	Page 12 (3)
				.EXTRN EDT\$\$G_RDAHED, EDT\$\$T_RDAHED .EXTRN EDT\$\$T_DEL_CH, EDT\$\$G_DEL_CHLEN .EXTRN EDT\$\$G_TRUN, EDT\$\$A_C\$R_SCRPTR .EXTRN EDT\$\$G_C\$_OLDCHNO .EXTRN EDT\$\$G_SHF, EDT\$\$G_INSERT_MODE	
			OFFC 00000	.ENTRY EDT\$\$RD_ECHO, Save R2,R3,R4,R5,R6,R7,R8,F	39,-: 0703
		5B 00000000G 00 5A 00000000G 00 59 0000000G 00	0 9E 00002 0 9E 00009 0 9E 00010	MOVAB EDT\$\$G_CUR_COL, R!1 MOVAB EDT\$\$A_LN_END, R10 MOVAB EDT\$\$A_LN_PTR, R9	
		5E FF78 CI	0 9E 00010 E 9E 00017 0 E8 0001C	DLDS EVISSORPHU, 25	0842
		50 00000000G 00 F6	0 DO 00026 2\$: 4 13 0002D	BRW 31\$ - MOVL EDT\$\$A_CSR_SCRPTR, RO BEQL 1\$	0848
		09 A	0 95 0002F F 12 00032	TSTB 9(RO) BNEQ 1\$	0850
51	51 09 A0	52 51 000000006 00 52 08	0 9E 00037 1 C3 0003E 0 ED 00042	MOVL EDT\$\$A_LN_PTR, R2 MOVAB EDT\$\$T_LN_BUF, R1 SUBL3 R1, R2, RT CMPZV #0, #8, 9(R0), R1	0856
		D2 00000000G 00 50 00000000G 00 50 00000000G 00	0 E8 0004A 0 9E 00051 0 p1 00058	BEQL 1\$ BLBS EDT\$\$G_RCOV_MOD, 1\$ MOVAB EDT\$\$Z_EOB_[N, RO CMPL EDT\$\$A_WK_[N, RO	. 0862 : 0868
		BB 000000006 00	2 13 0005F 0 E8 00061 0 D5 00068	BEQL 15 BLBS EDT\$\$G_MSGFLG, 1\$ TSTL EDT\$\$G_SHF	. 0877 . 0883
	51 62	50 10 000000006 00 50 51	A DO 00070 0 E9 00073 2 C3 0007A 9 3A 0007E 2 12 00082	BNEQ 1\$ THE MOVE TO THE MOVE TO THE MOVE TO THE MOVE TO THE MOVE T	0896 0892 0896
		02 55 02 52 54 55	1 D4 00084 1 D5 00086 3 \$:	BNEQ 3\$ CLRL R1 TSTL R1 BRB 5\$ CMPL R0, R2 BNEQ 1\$	0903
	52 00000000G	00 0	6 D4 00091 6\$: 1 C3 00093	CLRQ READ CLRL TERMINATOR_PROCESSED SUBL3 #1, EDT\$\$G TI WID, NUM_CHARS MOVL EDT\$\$G WD WRAP, RO CMPL RO, NUM_CHARS	0909 0913 0917 0922
	50 52	52 52 52 50 50	0 00 0009B 0 01 000A2 3 18 000A5 0 00 000A7 B C3 000AA 7\$: 7 C3 000AE A D0 000B2	MOVL RO, NUM_CHARS SUBL3 EDT\$\$G_CUR_COL, NUM_CHARS, RO SUBL3 READ. RO. NUM_CHARS	0927 0936
	54		1 C3 000B5	DKD 73	;
	00000000G ED	76 76 00 52 54	E D4 000BB 8\$: 4 9A 000BD 2 FB 000C0 0 C2 000C7 5 F2 000CA 9\$:	BRB 9\$ CLRL -(SP) MOVZBL (CPTR), -(SP) CALLS #2, EDT\$\$FMT CHWID SUBL2 RO, NUM_CHARS AOBLSS R5, CPTR, 8\$	0937

DO

11

D4

CE 11

C1 94

FB

02

ÕĪ

10

01

04 AE40

001AA

001AD

001AF

001B4

001BA

001BF

001B1 20\$:

001B6 21\$:

MOVL

MNEGL

ADDL3

MOVZBL

CALLS

BRB CLRL

BRB

READ_DONE

COUNTER, READ, RO TEXT_BUF[RO], -(SP) #1, EDT\$\$TI_BUFCH

NUM_READ

#1 COUNTER

1011

0956

1014

1020

1021

Š8

54

50

0000000G

RET CLRL

RET

R0

DA DA

1124

; Routine Size: 705 bytes. Routine Base: _EDT\$CODE + 000B

1125 1 1126 1 !<BLF/PAGE>

EDT\$CHMEINPUT EDT\$CHMEINPUT - read with echo if possible v04-000 EDT\$\$RD_ECHO - read with echo if possible 15-Sep-1984 23:50:01 VAX-11 Bliss-32 V4.0-742 Page 16 14-Sep-1984 12:22:26 [EDT.SRC]CHMEINPUT.BLI;1 (4)

1127 1 END ! of module EDT\$CHMEINPUT

1128 1

1129 0 ELUDOM

PSECT SUMMARY

Name Bytes Attributes

_EDT\$CODE 716 NOVEC.NOWRT, RD , EYE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

file	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[EDT.SRC]EDT.L32:1	377	39	10	40	00:00.2
_\$255\$DUA28:[EDT.SRC]PSECTS.L32:1	2	1	50	7	00:00.1

COMMAND QUALIFIERS

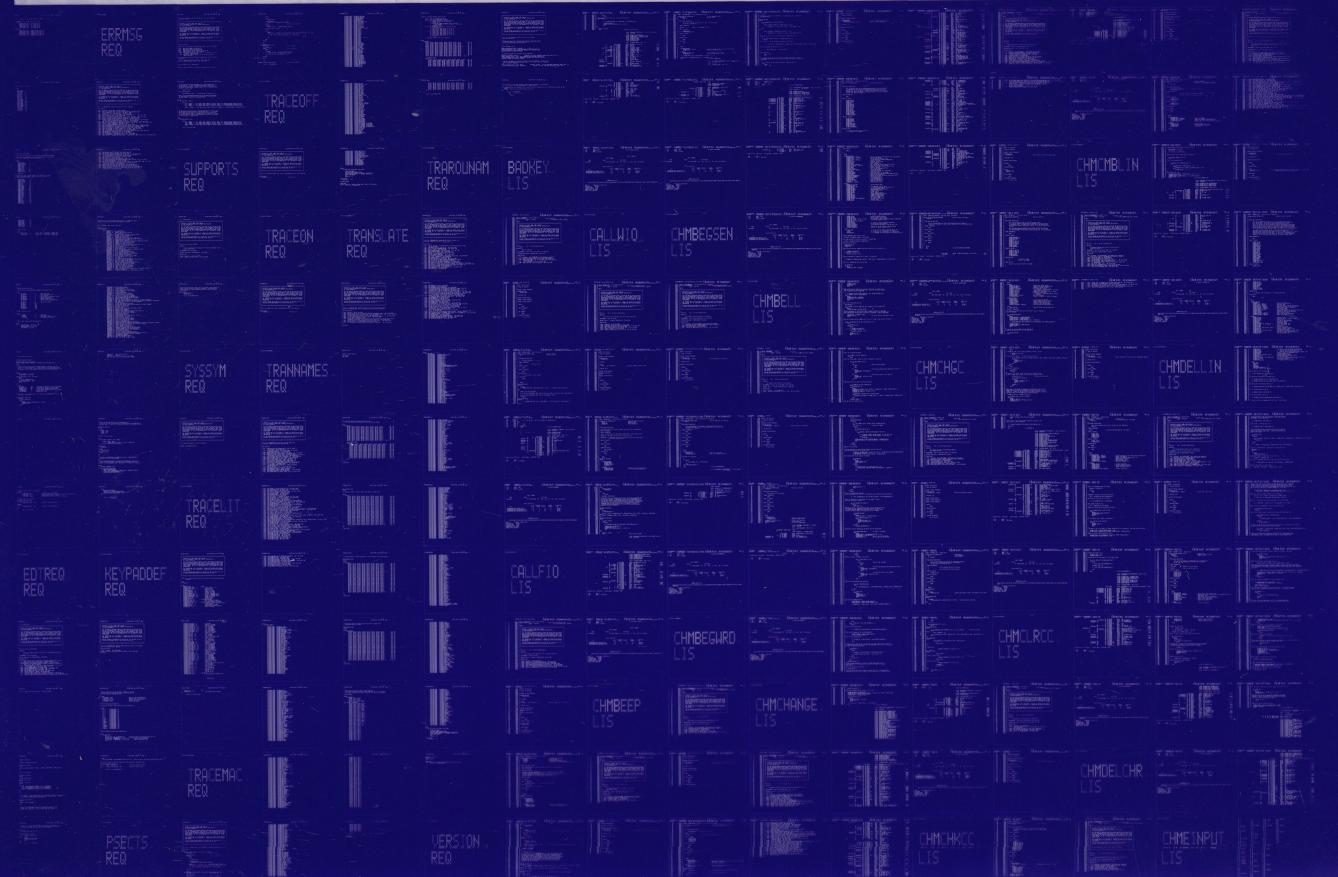
BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACEBACK/LIS=LIS\$: CHMEINPUT/OBJ=OBJ\$: CHMEINPUT MSRC\$: CHMEINPUT.BLI/UPDATE=(ENH\$: CHMEINPUT)

Size: 705 code + 11 data bytes
Run Time: 00:30.2
Elapsed Time: 00:34.5

Run Time: 00:30.2 Elapsed Time: 00:34.5 Lines/(PU Min: 2240 Lexemes/(PU-Min: 7145 Memory Used: 198 pages Compilation Complete

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